

KERALA AGRICULTURAL UNIVERSITY

**B.Sc (Hons.) Forestry. 2014 Admission
1st Semester Final Examination- February-2015**

Cat. No: Tpbr.1102

Marks: 50

Title:Elementary Tree Physiology (1+1)

Time: 2 hours

I) Fill up the blanks

(10 x 1=10)

1. The hormone responsible for senescence in plants is _____
2. The major hormone responsible for cell expansion is _____
3. Water potential of pure water is _____
4. Arrangement of leaves on an axis is called _____
5. The hormone generally used to break embryo dormancy is _____
6. Main gas responsible for the Green House effect is _____
7. Incoming solar radiation is termed as _____
8. PAR means _____
9. The permanent increase in size and number of cells is called _____
10. Study of grasses is called _____

II Write short notes on any FIVE

(5 x 2=10)

1. Structure of chlorophyll molecule
2. Green house effect
3. Alleopathy
4. Biocides
5. Vernalization
6. Cohesion tension theory
7. Oxidative phosphorylation

III Write short essays on any FIVE of the following

(5 x 4 =20)

1. Role of light in Photoperiodism
2. C4 path way
3. Write the structure of a plant cell
4. Light use efficiency in forest species
5. Arnon's criteria of essentiality in nutrition
6. Role of growth regulators in stomatal movement
7. Define phyllotaxy and explain canopy structure of tree species

IV Write essay on ANY ONE

(1 x 10=10)

1. Discuss the light use efficiency in forest species
2. Explain the role of major and secondary nutrients in plant growth and development
